

# 菊科亚菊属川甘亚菊类群订正\*

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## A REVISION OF *AJANIA POTANINII* (KRASCH.) POLJAK. GROUP (COMPOSITAE)

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**Abstract** In 1983, in *Flora Reipublicae Popularis Sinicae* 76 (1) *Ajania potaninii* (Krasch.) Poljak. was treated broadly by the present author. At that time, *Chrysanthemum potaninii* (Krasch.) Hand. -Mazz. var. *amphiseriaceum* Hand. -Mazz., *Chrysanthemum truncatum* Hand. -Mazz. and *Ajania hypoleuca* Ling in shed were treated as synonyms of *Ajania potaninii* (Krasch.) Poljak. Evidently, the treatment of the three taxa was not suitable. It seems necessary to make further revision in the present paper. Abovementioned three names treated as synonyms should be regarded as three different species of *Ajania*. However, these three species are closely related to *Ajania potaninii* (Krasch.) Poljak. They are keying as follows:

1. Leaves undivided.
  2. Leaves discolour, green, glabrous above, cinereous-white, densely white-tomentose beneath ..... 1. *Ajania potaninii* (Krasch.) Poljak.
  2. Leaves concolour on both sides, cinereous-white, densely white-tomentose ..... 2. *Ajania amphiseriacea* (Hand. -Mazz.) Shih
1. Leaves pinnatipartite or pinnatisect.
  3. Leaves pinnatipartite, discolour, green, glabrous above, cinereous-white, densely white-tomentose beneath ..... 3. *Ajania hypoleuca* Ling
  3. Leaves pinnatisect, concolour on both sides, cinereous-white, densely white-tomentosa ..... 4. *Ajania truncata* (Hand. -Mazz.) Ling

**Key words** *Ajania*; *A. hypoleuca* Ling; *A. truncata* (Hand. -Mazz.) Ling; *A. amphiseriacea* (Hand. -Mazz.) Shih

**摘要** 本文对作者本人在 1983 年《中国植物志》第 76 卷第一分册 121 页上针对川甘亚菊处理过宽的问题,重新作出了订正。本文确认川甘亚菊、灰叶亚菊、深裂亚菊及下白亚菊分别为不同的种,并作出了这四个种的分种检索表。

**关键词** 川甘亚菊;灰叶亚菊;深裂亚菊;下白亚菊

1983 年,作者在所编《中国植物志》第 76 卷第 1 分册 121 页上,对川甘亚菊 *Ajania potaninii* (Krasch.) Poljak. 的处理现在看来似嫌过宽。在川甘亚菊种下,作者将 *Chrysanthemum potaninii* (Krasch.) Hand. -Mazz. var. *amphiseriaceum* Hand. -Mazz., *Chrysanthemum truncatum* Hand. -Mazz. 和 *Ajania hypoleuca* Ling in shed. 都处理作异名。这种处理,随着标本采集的增多,似欠妥。这里,有必要进行订正。作者认为,上述三个曾作异名处理的名称,应为 3 个不同分类群,而且它们应该被视为不同的种。

### 1. 川甘亚菊

*Ajania potaninii* (Krasch.) Poljak. in Not. Syst. Herb. Inst. Bot. Acad. URSS 17: 424, 1955; 中国高等植物图鉴 4: 517, 1975; 石铸, 中国植物志 76 (1): 121, 1983, p. p. — *Tanacetum potaninii* Krasch. in Fedde, Repert. Sp. Nov. 26: 28, 1929. — *T. potaninii* Krasch. var. *nanum* et var. *suffruticosum* Krasch. 1. c. 28. — *T. rockii* Mattf. ex Rheder et Kobuski in Journ. Arn. Arb. 13: 406, 1932 — *Chrysanthemum rockii* (Mattf. ex Rheder et Kobuski) Ling in Contr. Inst. Bot. Acad. Peiping. 3: 482, 1935. — *C. potaninii* (Krasch.) Hand. -Mazz. in Act. Hort. Gothob. 12: 270, 1938; S. Y. Hu in Quart. Journ. Taiwan Mus. 19: 40, 1966. — *Ajania dentata* X. D. Cui in Bull. Bot. Res. 1 (4): 143, 1981.

甘肃:何业琪 917; J. F. Rock 15097. 四川: H. Smith 13376; 方文培 4365. 陕西:傅坤俊 5963.

### 2. 灰叶亚菊

*Ajania amphiseriacea* (Hand. -Mazz.) Shih, stat. nov. — *Chrysanthemum potaninii* var. *amphiseriaceum* Hand. -Mazz. in Act. Hort. Gothob. 12: 271, 1938; S. Y. Hu in Quart. Journ. Taiwan Mus. 19: 40, 1966. — *Ajania potaninii* auct. non (Krasch.) Poljak.; 石铸, 中国植物志 76 (1): 121, 1983, p. p.

四川:曲桂龄 6587, H. Smith 13352, 13345. 模式标本采自四川康定。

### 3. 深裂亚菊

*Ajania truncata* (Hand. -Mazz.) Ling comb. nov. — *Chrysanthemum truncatum* Hand. -Mazz. in Act. Hort. Gothob. 12: 270, 1938. — *Ajania potaninii* auct. non (Krasch.) Poljak.; 石铸, 中国植物志 76 (1): 121, 1983, p. p.

四川:李馨 76903, 76927, 76508. 模式标本采自四川马尔康。

### 4. 下白亚菊 新种

*Ajania hypoleuca* Ling, sp. nov.; 石铸, 中国植物志 76 (1): 121, 1983, in nota. Affinis *A. potaninii* (Krasch.) Poljak. quae foliis basice indivisis facile differt.

Fruticulus 55 cm altus, ramulis adpresso-tomentosis. Folia superiora mediaeque ambitu

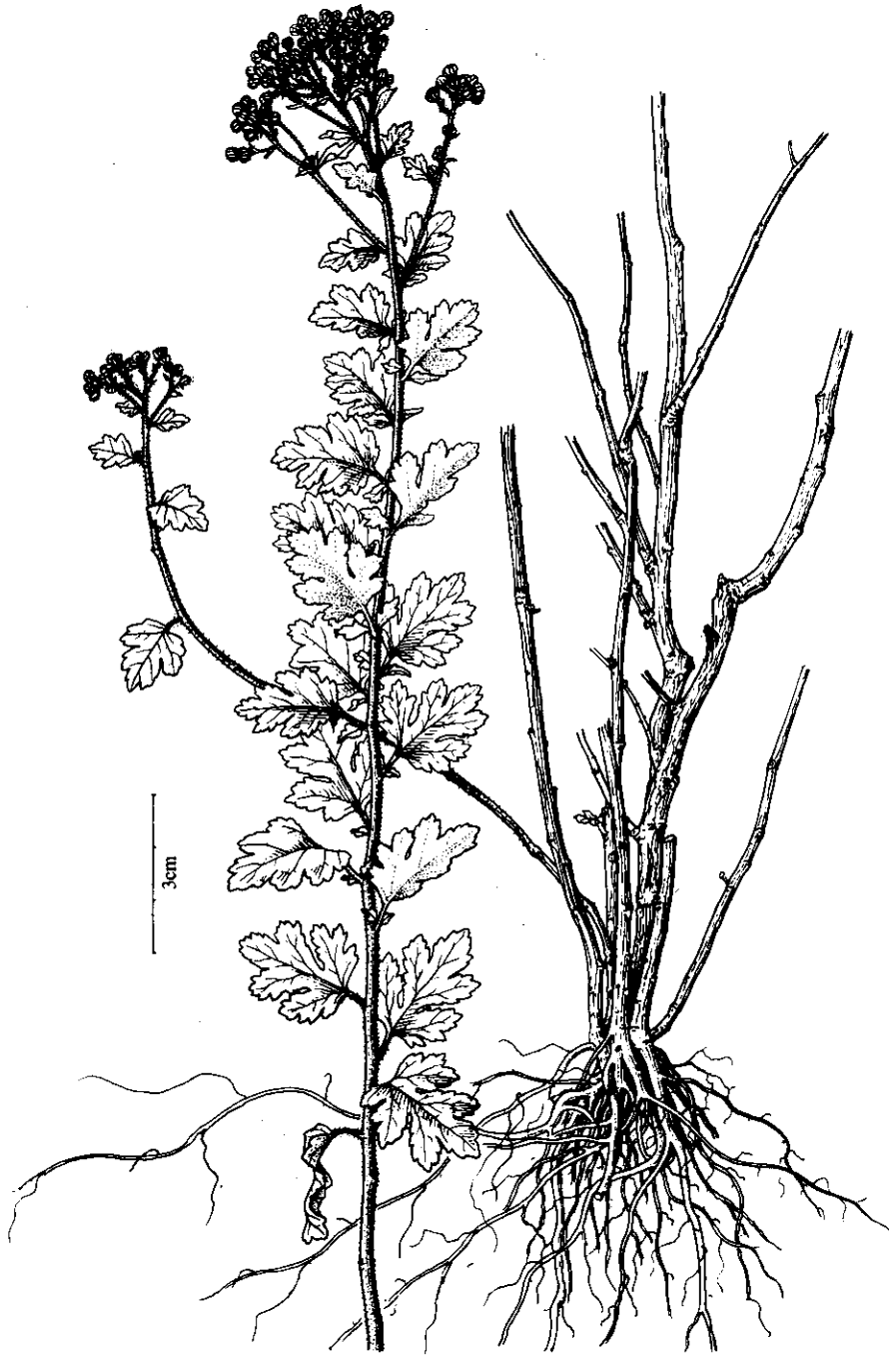


图 1 下白亚菊

Fig. 1 *Ajania hypoleuca* Ling et. shih

late ovata vel subovata, ovato-oblonga, 1.5—2.5 cm longa, 1.3—2 cm lata, petiolata, petiolis circ. 5 mm longis adpresso-tomentosis, basi truncata vel cuneata, 3—7-pinnato-vel subpinnato-partita, lobis margine serratis, omnibus supra viridibus, dense glandulosis, subtus dense albo-tomentosis, sub indumento glandulosis; folia sub inflorescentia foliis superioribus mediisque similia, sed minora. Capitula minora, numerosa, ad apice ramorum et caulis inflorescentiam corymbosam formantia, pedunculis et pedicellis adpresso-albo-tomentosis. Involucrum campanulatum, 3.5 mm in diametro, involucri phyllis 4-seriatis, extimis oblongis, 1 mm longis, 0.5 mm latis, interioribus mediisque longioribus, oblongis vel ovato-oblongis, 3 mm longis, 1.2 mm latis; omnibus gramineis nitidis, dorso glabris, apice obtusis vel rotundatis, margine late albo-membranaceis. Flosculi heterogami in calathidio 40, extus glandulosi, marginales feminei 4, filiformes, 1.8 mm longis, apice 4—5-fidis, omnes flaves. Achaenia 0.6 mm longa.

**Sichuan** (四川): Tunnan (潼南县), W. P. Fang (方文培) 1928-07-22, 1453 (Typus, PE); Li Xian (理县) Zh. L. Zhou et Zh. He (周子林, 何铸) 13924.

**Gansu** (甘肃): Wen Xian (文县), ad viam 650 alt. K. T. Fu (傅坤俊) 2332.

多年生小半灌木, 高约 55 cm, 小枝被白色贴伏的短柔毛。中上部叶卵形、近卵形或卵状椭圆形, 长 1.2—2.5 cm, 宽 1.3—2 cm, 羽状或近羽状 3—7 深裂, 基部截形或几截形, 有叶柄, 柄长 5 mm, 被密厚短绒毛, 裂片边缘有锯齿, 全部裂片上面绿色, 有稠密的腺点, 下面灰白色, 被密厚的白色短绒毛, 毛层下面有腺点, 接头状花序下部的叶与枝条中下部的叶同形并等样分裂, 但较小。头状花序小, 多数, 在枝端排成直径 1—5 cm 的伞房花序, 花序分枝与小花梗被白色贴伏的短绒毛。总苞小, 钟状, 直径 3.5 mm, 总苞片 4 层, 外层椭圆形, 长 1 mm, 宽 0.5 mm, 中内层较长, 椭圆状或卵状椭圆形, 长 3 mm, 宽 1.2 mm, 全部总苞片麦秆黄色, 外面无毛, 有光泽, 顶端钝或圆形, 边缘白色, 宽膜。头状花序含小花 40 枚, 两性小花管状, 顶端 4—5 齿裂, 边花雌性, 细丝状, 全部小花外面被腺点。瘦果长 0.6 mm。

新种与川甘亚菊 *Ajania potaninii* (Krasch.) Poljak. 相似, 但川甘亚菊的叶基本不分裂, 容易区别。

上述四个种为近缘, 其区别如下:

1. 叶不分裂或偶见浅裂。
  2. 叶两面色, 上面绿色, 下面白色, 被白色稠密短绒毛 ..... 1. 川甘亚菊 *A. potaninii* (Krasch.) Poljak.
  2. 叶两面同色, 灰白色, 被白色稠密短绒毛 ..... 2. 灰叶亚菊 *A. amphiseriacea* (Hand.-Mazz.) Shih
1. 叶羽状全裂或深裂。
  3. 叶羽状全裂, 两面灰白色, 被白色稠密短绒毛 ..... 3. 深裂亚菊 *A. truncata* (Hand.-Mazz.) Ling
  3. 叶羽状深裂, 两面色, 上面绿色, 下面灰白色, 被灰白色短绒毛 ..... 4. 下白亚菊 *A. hypoleuca* Ling